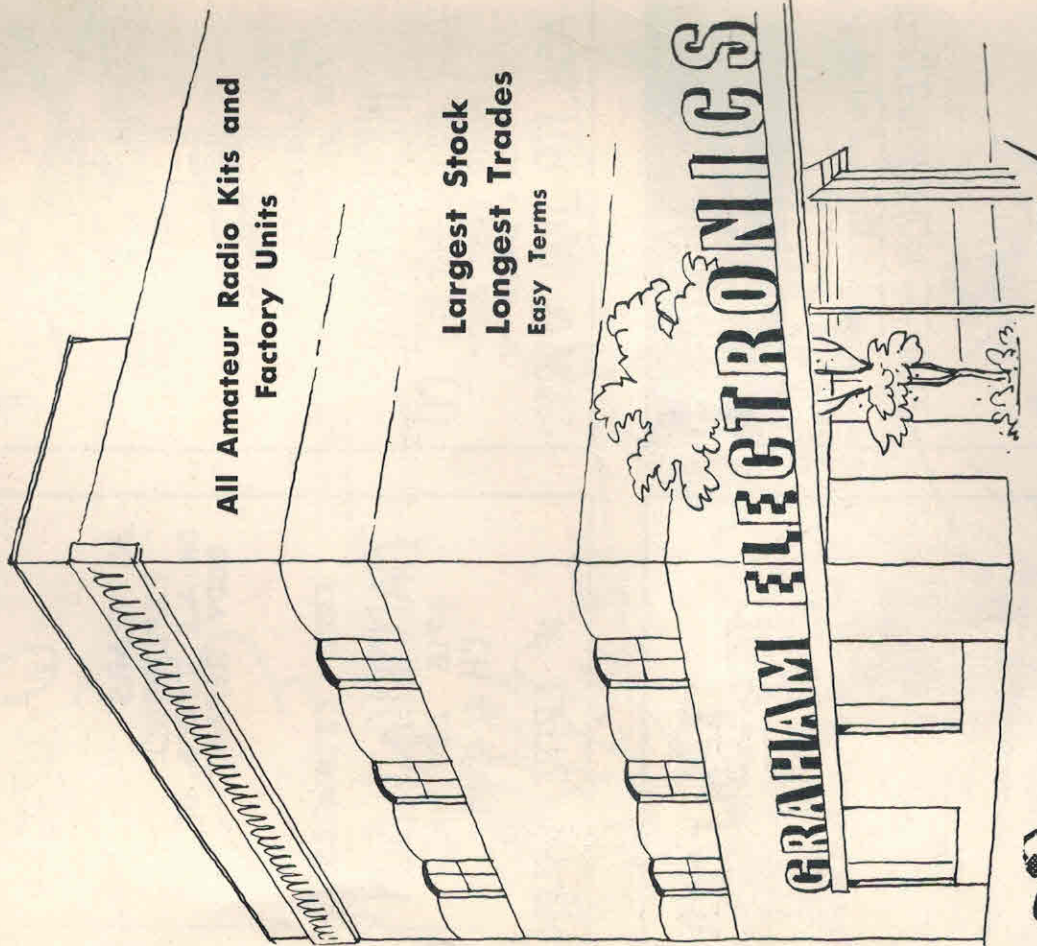


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MAY 1960

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FOUNDED 1916



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To: Robert Caskey W9DNQ  
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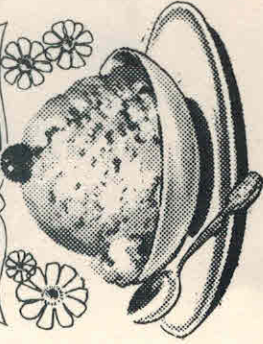
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 Owner was IRC  
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The Indianapolis Radio Club meets on the 2nd and 4th Friday of each month at the Indianapolis Park Board Building located at 29th and Harding Streets. Meetings start promptly at 8:00 P.M. Indianapolis time.

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<b>TECHNICAL ADVISORS</b>	Cliff Singer D. McVickers	W9SWD W9JZV
<b>COVER STORY</b>	Ron Williams	W9JVF

\*\*\*\*\*

Ama-Chewer is published monthly by and for I.R.C. and all Amateurs in this area. Non-Members of I.R.C. may subscribe at the rate of \$1.00 per year.

Publication is on the 3rd Friday of each month, with all news items and ads due no later than the 1st Friday of each month.

Ham-Ads (5 line limit) are free to members and subscribers. Others may use this facility at the rate of 50cents per ad.

Ama-Chewer welcomes the forwarding of information on coming events of other clubs in the area for publication in the program section.

\*\*\*\*\*

PROGRAM SCHEDULE

April 22nd	Cliff Singer W9SWD will present a talk and demonstration on RTTY. His presentation will be geared for those of us who might have the itch to get started, but just don't know where to scratch first.
May 13th	Regular Business Meeting PLUS Bill Konold W9UQV of Western Electric who will demonstrate and discuss his automatic key "For fone men that means CW." Here is a simple and very useful gadget for every shack.
May 20th	SWAP AND SHOP NIGHT Remember this is the 3rd Friday of the month, 7:00 PM to 8:00 PM is Swap and Shop. 8:00 PM to ??? is Auction Time.
June 10th June 24th	Regular Business Meeting S.S.B. by Rolly Boughton, W9PMM, Here is SSB in a small dose. Rolly, in his easy going style will convince you that SSB is simpler than AM. DON'T MISS IT.
June 25th & 26th	FIELD DAY The site will be the State Fair Grounds. More details next month, and for those that can't wait to get their assignments, you can get them from McVickers, Chief Op. if you threaten him a little.

NEW MEMBERS

We wish to welcome the following new members into the IRC. May their membership be a long a pleasant one.

- |                         |                             |
|-------------------------|-----------------------------|
| Curtis W. Hunter, K9LVS | Winston Hunter, K9DWT       |
| Alvin J. Minnick, K9SUW | George Lone, K9CBY          |
| W. R. Williams, W9ZEB   | Roscoe C. Clark, Jr., K9DXQ |
- \*\*\*\*\*

SPLATTER

K9KSP, Rick, can be heard from Miami Beach, Fla. operating mobile with a Heath Kit Twin, (Boy oh Boy what a spring vacation would do for us. Ed.)  
Frank, W9MNA, will soon have to fight to get at his rig, as his son just took his Novice and Tech. examinations.  
Angus, W9CYQ, has been taking life easy down in sunny Florida, and he picked a dandy time, as he missed all that March snow.

THE PRESIDENTS FREQUENCY

"An Amateur is not known by the clothes he wears or the company he keeps--but by the signal he emits", from the March QST editorial--1935.

Well Amen brother! and whats more in 1935 the state of the art didn't compare with todays, meaning we are expected to be putting out a pretty good signal.

Some years ago I remember getting a 5x7x5 report, and knowing that you never get anything less than a 5x7x9, I thanked him for the 5x7x9, and was some what shocked when he came back to correct me and explain the-5. That was the first time I ever thought about something being more important than signal strength. From this honest report came a whole chain of experiments and corrections, to get a proper signal on the air. It was an interesting experience, the first time I ever actually used a scope, the first time I ever went to another shack to listen to my own signal, the first time I ever read the power supply chapter in the Handbook with a real purpose, the first of a series of key click filters, the first of careful adjustment and maintenance routines on my VFO, all of which added together ended up with a signal that looked the way a signal should on a scope.

Naturally after becoming an old "pro", I too started giving honest reports and believe me that will sure give you a different slant on human nature.

The next time you are asked for a report, be honest with the OM at the other end and call 'em as you hear 'em, but be sure that your own signal is one that you can be proud to sign with your call. Remember an Amateur is known by the signal he emits.

\*\*\*\*\*

WE GOT EM HOT OFF THE PRESS

At the March business meeting it was voted to purchase (25) Advance Registration Tickets for the IRCC sponsored A.R.R.L. Central Division Convention, for resale to our members.

Or, stated another way--Hey you guys, how about getting your tickets now!! You save a buck in doing so, cause they are five-bucks at the gate.

See Pat Husk at the next meeting, and get yours early.

\*\*\*\*\*

SPLATTER

Elmer-W9GRN, is toying with the idea of ordering a new 20 meter beam to replace the faithful homebrew beauty that has been giving service for many a moon.

## COVER STORY

In the early 1920's, Professor Anderson-9FX, who was the physics instructor at Jamestown College in North Dakota, was hearing some wierd transmissions in his neighborhood. Upon investigation he found Cliff Singer and some friends busily pounding brass with a very broad tuned spark rig. With some help from the Prof. a helix coil was installed which narrowed the signal a bit. This served the double purpose of improving the signal from Singer and company and it allowed the Prof. to hear some out of town stations on his BC rig. Thus started the electronic career of W9SWD, both as an Amateur and Engineer.

Cliff has probably held more elected and appointed offices than anyone in the Indpls. area, including President of IRC, and WEARC, EC and at present Assistant Director for Indiana, and SCM of Indiana. He was honored in 1957 by the Indiana Radio Club Council and presented with the annual "Outstanding Amateur" award.

For the last seven years there has been either K9AVO (WEARC) or W9JP (IRC) operating Field Day from the W9SWD QTH.

September '56 saw disaster strike when the Singer home and radio equipment were badly damaged by a serious fire. When the Hallicrafter people found that Cliff's SX88 still worked, even though badly charred inside and out, they put it back in new condition at no charge. Although W9SWD was off the air for a while following the fire he bounced back rapidly and the station now consists of a Viking Ranger, driving a Thunderbolt final at 800 watts on 75 and 10 meters. The faithful SX88 does the receiving. There is also RTTY and a host of test gear in the shack. Cliff has a 60 watt mobile rig almost finished and a fine SSB outfit under construction to further add to the W9SWD list.

One of Cliff's most humorous (afterwards) incidents occurred when as a first time NCS of the Ind. Fone Net, with many crystal controlled stations, amid the confusion of 40 over 9 QRM, he announced optimistically, "All stations QSY to a clear frequency."

This reporter visited W9SWD during a recent session of the Ind. Fone Net. All the traffic was cleared and as the transmitter filaments cooled and the QRM built up on 3910, Cliff said with a twinkle in his eye, "Lets go fishing."

\*\*\*\*\*

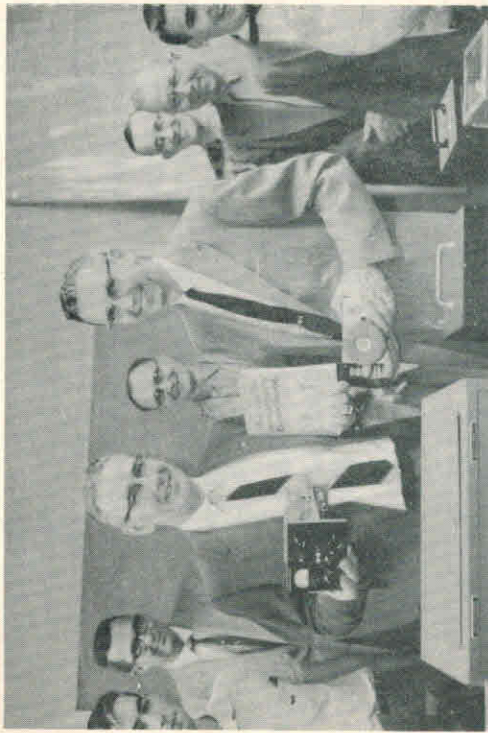
## SPLATTER

K9JRF, Ron, has a new Apachi on the air and judging from the signal he is putting out, his building ability is top

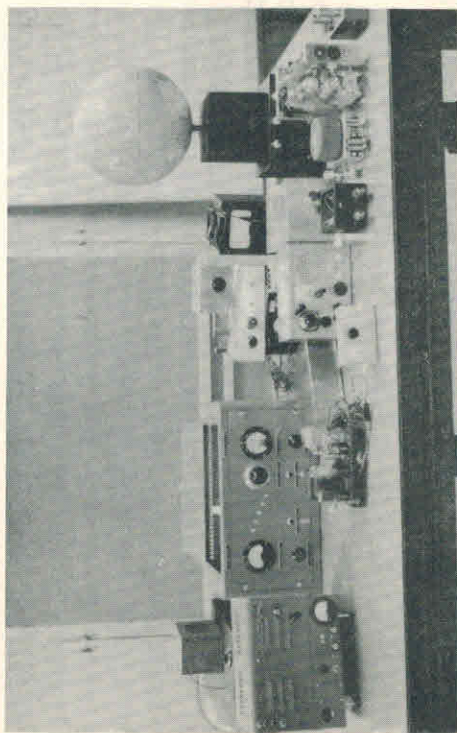
## HOME BREW NITE

April 8th the IRC held its second homebrew night which found eleven people entering items which they had designed and or constructed themselves, which just goes to prove that some of the local hams have not gone "strictly commercial."

After each builder had stepped up and given the details on his unit, Jim Sugioka-W9CKB and Ed Ward-K9CRS got down to the task of picking a winner.



After due deliberation they announced that Cliff Singer, W9SWD had walked off with the honors. Cliff's 80 meter mobile rig and transistor inverted power supply which had the appearance and construction of a "store bought rig", won him a 1960 ARRL SSB Handbook.



The judges awarded honorable mention to K9OFK-Jim Rosenbaum for his 6 meter transceiver which was taken from a layout in Ham News, and to Bob Spannuth K9BSU who dis-

Francis H. Griswold  
Lieutenant General USAF  
Vice Commander-in-Chief  
Strategic Air Command  
KØDWC

Editor IRC Ama-Chewer  
Indianapolis, Indiana

#### IT'S NOT SO--

During hundreds of hours of operating aeronautical mobile in all parts of the world, this is the most frequent comment I hear: "I wish I could get my antenna 18,000 feet in the air like you have--it would be wonderful". I reply "It's not so".

Based on a large number of rather non-scientific tests, it is my opinion that, for skip work, the results are always as good and often better when the airplane is on or close to the ground. For ground wave work, altitude does spread out the coverage.

Quite often I am directly over a station on the ground, and both of us are talking to the same station a thousand or more miles away. Very infrequently is the aeronautical mobile signal the stronger at the distant station; generally the ground station is the winner. Receiving the signal from the distant station is always more difficult in the airplane than on the ground. This may be at least partially accounted for by noise, both mechanical and electrical in the plane, plus the ever present bugaboo of precipitation static.

The wire antenna on the airplane is not as efficient as a good directional array would be. However, it is my firm opinion that if it were possible to install a good three-element beam on the airplane, the results obtained by a similar array on the ground would be superior.

All this will probably come as a surprise to most hams. It surprised me when I finally realized the situation.

It is fun to operate aeronautical mobile, many calls are received on a novelty basis, but for good solid QSO's, I'll take Mother Earth.

Enjoyed your magazine  
"BUTCH"

#### PROGRAM REVIEW

March 25th the Radio Club was fortunate to have Mr. Dick Judkins, Chief Engineer of Esterline-Angus Co. speak on the practical application of transistors. Mr. Judkins gave a brief background on what a ham should know about transistor theory in order to be able to apply them in place of tube circuits. He referred to a transistor as being a small black box, something that is rather easily applied once the parameters are understood.

We were shown several transistor circuits of audio amps., intercom systems, etc. Many methods of construction are possible and he mentioned using sockets, peg board arrangements, and experimental set ups using a small Jones barrier strip, thus saving the task of soldering and the possible damage to a new unit while working in the bread board stage.

With the clear presentation and black board work, we all left the meeting with a much better understanding of the little black box and its many uses.

\*\*\*\*\*

#### CODE CLASS STARTED AT INDIANA BLIND SCHOOL

A wonderful idea for a club project developed last February when Dr. Rosenbaum called to learn if IRC would consider conducting a code class at the Indiana State School for the Blind. The proposal met with immediate approval at the February business meeting and the course was started on March 2nd.

Bob Caskey-W9DNQ, is in charge and has assigned five members to rotate as instructors. Each man works two nights in a row which makes a continuous overlap which helps maintain the continuity of the program. At the present thinking we plan to conclude the program after 12 weeks.

It was quite surprising to find how quickly the majority caught on and the manner in which they copy code text in Braille. The class started with 19 present with ages from 9 to 16, with one lad the owner of a Novice ticket, and their interest on the subject is an inspiration to those who are serving as instructors.

Naturally they will not all become "Generals", but for those that go all the way we will do everything we can to help them. The response to the request for volunteers was very gratifying--the sort of thing that makes a good club.

\*\*\*\*\*

What kind of information do you want??? This is a question that is asked of us quite often, so we figure the best way to get a good answer is to ask our readers. Drop us a note and we will get our technical advisors on the trail of the latest up to date circuits, advice, and construction practices.

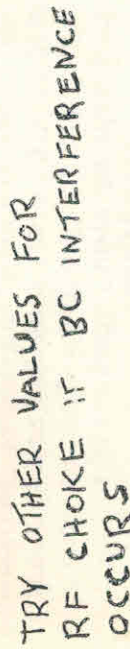
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## TECH TOPICS

With the growing popularity of voice control, an automatic means of switching the antenna from receive to transmit becomes essential. The antenna relay normally used for this service is entirely suitable if it is of the "quite type" and if it makes before the transmitter is hot.

The device illustrated here is adapted in some respects from the radar switching devices developed during WW2, to accomplish this change automatically, in a fairly safe manner.

In devices of this type the most common complaints are 1. Insertion Loss. 2. TVI. 3. BC reception on amateur frequencies. The earlier circuits using neon lamps did cause a definite loss of signal and TVI. This one however shows no trouble in either case. When first completed it did receive WIBC (2 miles away) every 10kc. Some experimenting, ending with a different value of RF choke (RFC 1) cured this trouble and it has operated without attention or noise for several months on 20M SSB with 800 watt input.



It is built in a 3x4x5 box with the input and output coax fittings on each of the 3x5 sides. A 115V plug is located on one of the 3x4 sides. One half of the 12AU7 is used as a half wave rectifier. Both sockets are Vector type which eases considerably the problem of wiring in a small box. In operation the first half of the 12AT7 operates as a biasing cut off stage and when RF is applied to the cathode it develops a high bias voltage causing the tube to be non-conductive. The second half operates as a receiving amplifier

This unit was displayed at Homebrew Nite and as noted by those present it is not a difficult unit to build, but it is one that will improve the operation of many rigs that are trying to operate Voice Controlled on a tin can and bailing wire method.

## IT MUST BE A GOOD SHOW

Normally there are very few bits of information that work their way into the editors mailbox from the club members, however during the past few weeks we have received several (6 to be exact) well written articles, all covering the same subject.

It seems the subject is causing some trouble at plants, offices, and stores when the male members of the staff leave their desks and benches each day about 10:15 AM to march in mass to the nearest coffee shop that has a TV set. In addition many colds seem to be lingering that extra day, especially in the morning hours.

In the event you haven't gotten the message yet, the cause of all this turmoil is 39-22-36 of exercise that hits the Channel 8 network every week day morning.

One report stated that the measurements were just the same as those of W9JJC, except they were slightly altered to read 22-39-36, which just won't put Alvey on TV.

\*\*\*\*\*

## TIP FOR THE TIRED BIZZ MAN

Meetings start exactly at 8:00 PM and he who gets there late has to stand on those tired aching dogs. No fooling, attendance is climbing with every meeting and the last few months have averaged over 50 present. This is good news, good meetings, good healthy sign, good club!!

\*\*\*\*\*

## OOOPS WE GOOFED

Somewhere along the line we slipped up and forgot to report that W. G. Bradburn (Brad) K9KCQ, had been appointed State Co-Ordinator for Air Force Mars. We will cover this in more detail in a coming issue, when we feature the local Air Force Group.

\*\*\*\*\*

## DOPEY DILDOCK SAYS

I save lots of money, by not putting any meters in my gear, I just drill a small peed hole in the panel so that I can look in and see when the plates on the final are getting red. Of course some times I have to put pennies behind the fuses in the 110v. line to keep the circuit going.

## TWENTY YEARS AGO

Looking at the past few issues of Ama-Chewer and reading the cover stories about our members it brought to mind the manner in which I was introduced to Amateur Radio.

The first spark came in the roll room at Tech High School at which time I noticed the passing back and forth of QSL cards. When I saw the far away places they represented my interest soared to the sky and I remember feeling the excitement as they talked of confirmations of other contacts that reached even further around the world.

Their invitation to visit the shacks and see the rigs was eagerly accepted and as I eyed the homebrew gear which was simple yet very effective it appeared to me as if they were magic boxes. There followed visits to more ham shacks and an invitation to visit the club, an active part in club projects all of which lead to many pleasant and enjoyable hours.

While all the above took place some 30 years ago, I feel that the young ham of today finds him or herself in much the same place.

How many of you have had similar introductions to ham radio? If your introduction was not so long ago, do you feel it will hold your interest for so long a time? Perhaps you will drop out as some have, but if you do it is almost a sure thing that you will never lose the spark to the point of completely setting radio out of your mind.

On occasion I have had the delight of seeing some movies taken 20-25-30 year ago by D. J. Angus, W9CYQ, at which time all the fun and fine associations came flooding back.

I remember those trips to Donald's Cave (you know it now as Spring Mill State Park) when some of the older members would furnish cars which we would load down with tents, sleeping gear and baskets of eats for the 35 MPH trip which put us in Mitchel, Ind. just before the stores closed on Saturday night.

I remember the night sounds, the trips to the cave, and those hours spent around the campfire, where the bull sessions carried far on into the night, as one by one we took our turn at the portable rig.

All these fine memories I hope will be yours as you roll back the calendar some thirty years from now, and I sincerely hope that you will have the fond friendships and pleasures that will make them worth living many times.

\*\*\*\*\*

## EXPLORER SCOUTS INTRODUCED TO AMATEUR RADIO

The Explorer Scout Troop at the University Park Christian Church at 46th and Illinois had an introduction to Amateur Radio during February and March. Box-W9PSE and Alvey W9JJC had three meetings with the Scouts at which time they gave a general explanation of the world of Amateur Radio, the requirements to get a license, and showed slides of local shacks.

Later two Gooney Boxes were put to work to show just what happens when a pair of hams hook up on the band, and a scope and audio generator were used to demonstrate a wave form.

On the last night the group was conducted on a tour of several local shacks and had the opportunity to see a phone patch made from Greenland to Rantol, Ill. We may never know, but we might have started a spark of interest-we hope.

\*\*\*\*\*



## THE BROWNIE OF IRC

The Brownie Point Contest came to a close on March 31st at which time all the gang bundled up their confirming cards and awaited the April business meeting. All the cards were turned over to Ed Ward-K9CRS and Henry Peterson-W9ZRK, and they went into a huddle to decide the winner. After a careful count they proclaimed Bob Spannuth-K9BSU the Brownie of the year. Bob went home with a new electric 24 hour clock for his shack and the pleasure of a great many eye-ball visits tucked away in his memory.

\*\*\*\*\*

## OUR ADVERTISERS

This is the fourth in our series of stories on our advertisers who help bring the Ama-Chewer to you.

### **KEN AMICK**

#### **CASUALTY INSURANCE**

Ken Amick, W9NZA, whose ad appears on the inside front cover, joined the club back in 1938, when we were meeting in the basement of the Church at the corner of Illinois and New York Sts. After attending a code class there and burning some midnight oil he received his ticket in June 1938, and has been on the air ever since, except during the period when he was working for Uncle Sam, way back in the good old 40's. During that time with Uncle Sam, he was commissioned in the Air Force in May 1942, after which he spent a year at Mitchel Field in N. Y. and a year and a half in VU land, being located at Asam, India, where he was Communications Officer.

The year 1932 brings back many memories to everyone over the forty mark, but to Ken this was the year he started his own insurance agency, which he has operated ever since.

He offers a complete line of casualty insurance, fire, auto, homeowners, workmans compensation, everything in that category but no life insurance.

Ken has been a SSB station since 1955, using the S line with (3) 811's in grounded grid for a final, feeding into a Mosley Tri-Bander. Twenty meter activity takes most of his on the air time, although he can go 40-15 and 10. He received a Class "A" ticket in 1946.

Ken's office is located at 113 E. Michigan and he knows after 30 years in the business---how to provide for your needs the insurance that will be most desirable for you.

A real Amateur and IRC booster--W9NZA.

\*\*\*\*\*

## GRAHAM SPECIALS OF THE MONTH

Globe Champ, VERY NICE CONDITION	\$350.00
Johnson Ranger, Good Condition	\$215.00
Gonset Communicator III, VERY NICE	\$225.00
Heath DX-20, Good Condition	\$ 29.95
Harvey Wells TBS-50C-Good Condition	\$ 44.00
Johnson 6N2, Fair Condition	\$ 99.00

\*\*\*\*\*

## HAM ADS

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1-110v/24v. Transformer  
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1-Selsyn Transformer

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Marvin E. Mincer, W9HJH  
1733 N. Spencer, Indpls. 18  
Fleetwood 9-8120

\*\*\*\*\*

## OH I DON'T KNOW

The other day at lurch the talk was centered about outer space and missiles, during which the word "ablative" nose cone was mentioned. To keep hep with the new age we secretly referred to Webster to find--"Designating or pertaining to a case of the noun, in Latin and Sanskrit expressing the relation of removal or direction away which are expressed for English nouns by, from, and in Latin also the senses of, with, by, at and in. The ablative case or a form in that case."

Well after all that's one mans opinion.

\*\*\*\*\*

## PREVIEW OF COMING ARTICLE

No high school athlete can boast of the friends your "Ham" has made thru the magic of key. Time nor age makes the letters they wear, passe.

The good old FCC smooths the pathway for parents too. That General license puts on an armour that is rather difficult for delinquency to penetrate.

You can have your personality boys with the fancy steps and debonair flair, I'll take my teen age "Ham."

The above are portions of a writing by Mrs. Wolfla, mother of Hank, K9LZJ, that will soon appear in CQ magazine. Mrs. Wolfla has ventured into the commercial field and found that Hank and his fellow teen age hams offered a splendid base around which to spin a yarn or two. Best of luck Mrs. W.

\*\*\*\*\*

## SPLATTER

Congratulations-K9QFG, Dave, has received his General

## MORE GENERAL TICKETS ON THE WAY

Jack Merck, K3GIG/9 (recent new member) and Dick Probst are conducting a class for Novice and General hopefuls at the St. Andrews Presbyterian Church at 3700 North Kessler. Jack has loaned the group his SX 101 and Viking Valiant to set up their station. We understand that Rev. Huber ask the boys what they would be needing, and Jack answered by looking up at the steeple and saying "How far can we go." Anyway the boys in the group seem eager and we wish them luck.

\*\*\*\*\*

MAY 20TH

Coming up is our annual Swap and Shop Nite, which seems to be getting bigger and better every year. Requests for time and place have been coming in from around the state, including some of the gang from Kokomo, Bedford and Brazil. We are also expecting some of the OM's who will be chauffering their XYL's to the HAWK's Buffet Supper on the same night.

As is the custom we will have a raffle with a Millen Grid Dipper as the prize that we will all want to be taking home. Tickets will go at 15¢ each, or 7 for \$1.00. The Dipper is complete with all coils for 1.7 to 300 mc.

The usual table space will be available for those lucky people that have so much gear, that they have to rent a truck to get it down to the Park Board Bldg. at 29th & Harding Sts.

The Swap and Shop portion of the evening will take place from 7 to 8 PM, and we would like to suggest that all gear be marked with owners call or other means of identification.

At 8 PM the Auction starts, at which time all those with corns, bunions and open toed shoes are warned to stand back as the rush for bargains sometimes comes close to a stampede.

The Chief Op. will have a full stock of refreshments, which will be available all during the evening.

Clean out the surplus, load it in the car and come on down. We admit you may go home with more than you hauled in, but we all have a need for some "good buys" stored on shelves in the shack, or we wouldn't be hams.

Come early, stay late, take a crack at the Grid Dipper, and the hot items which will be on sale, but above all come on down and have a barrel of fun with the IRC gang, and our visitors.

Please note: Nothing over seven tons may be sold or auctioned. (Weak Flooring-Ed.)

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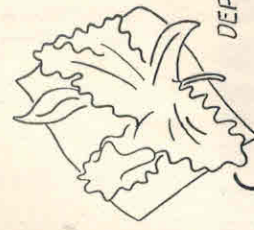
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ROY W9YMW

I HEAR MARCEL IS GETTING OUT  
SINCE HE MADE HIS FEED LINE-  
MATCH HIS STANDING WAVE!

